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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 9000
10/092,333 03/		03/06/2002	Imed Gharsalli	01-484	
719	7590	10/03/2006		EXAMINER	
CATERPII 100 N.E. AI			NGUYEN, KIMNHUNG T		
PATENT D		KDD I	ART UNIT	PAPER NUMBER	
PEORIA, II	L 616296	490	2629		
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Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.	Applicant(s)					
Office Action Summary			10/092,333	GHARSALLI ET	AL.				
			Examiner	Art Unit					
			Kimnhung Nguyen	2629					
Period f	The MAILING DATE of this communion Reply	nication app	ears on the cover sheet w	vith the correspondence a	ddress				
WHI0 - External after af	HORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE Mansions of time may be available under the provision of SIX (6) MONTHS from the mailing date of this come of period for reply is specified above, the maximum sure to reply within the set or extended period for reply received by the Office later than three months need patent term adjustment. See 37 CFR 1.704(b).	MAILING DA s of 37 CFR 1.13 munication. statutory period w y will, by statute,	ATE OF THIS COMMUN 36(a). In no event, however, may a vill apply and will expire SIX (6) MO cause the application to become A	ICATION. reply be timely filed  NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).					
Status									
1)⊠	Responsive to communication(s) fil	ed on <u>12 Ju</u>	<u>lly 2006</u> .						
2a) <u></u>	This action is FINAL.	2b)⊠ This	action is non-final.						
3)□	Since this application is in condition	for allowar	nce except for formal mat	ters, prosecution as to th	ne merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
4)🖂	Claim(s) 1-20 is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)[	Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-4,8-12 and 14-18</u> is/are rejected.								
7)🖂	Claim(s) <u>5-7,13,19 and 20</u> is/are objected to.								
8)[	Claim(s) are subject to restri	ction and/or	election requirement.						
Applicat	ion Papers								
9)□	The specification is objected to by the	ne Examine	<b>.</b>						
·	The drawing(s) filed on is/are			by the Examiner.					
<i>,</i> —	Applicant may not request that any obje	-	•	·					
	Replacement drawing sheet(s) including			• •	CFR 1.121(d).				
11)	The oath or declaration is objected t			· · ·	• •				
Priority (	under 35 U.S.C. § 119								
12)□	Acknowledgment is made of a claim	for foreian	priority under 35 U.S.C.	§ 119(a)-(d) or (f).					
	☐ All b)☐ Some * c)☐ None of:			<b>3</b>					
,	1. Certified copies of the priority	documents	have been received.						
	2. Certified copies of the priority			Application No					
	3. Copies of the certified copies			· ·	l Stage				
	application from the Internation	-	•						
* 5	See the attached detailed Office action		, , , ,	received.					
			·						
Attachmen	t(s)								
	e of References Cited (PTO-892)			Summary (PTO-413)					
_	e of Draftsperson's Patent Drawing Review (I mation Disclosure Statement(s) (PTO-1449 or	•		s)/Mail Date Informal Patent Application (PT	·O-152)				
	r No(s)/Mail Date	1 10/30/00)	6) Other:	* * * * * * * * * * * * * * * * * * * *	- · <b></b> ,				

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#### **DETAILED ACTION**

1. This application has been examined. The claims 1-20 are pending. The examination results are as following.

# Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 2-5 recites the limitation "receiving a desired command signal" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim. Is it "said receiving a desired command signal"?
- 4. Claims 6, 7 recites the limitation "wherein adjusting a parameter of an undesired command signal" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim. Is it "wherein said adjusting a parameter of an undesired command signal"?

# Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1-4, 8-12, 14, 15 and 17, 18 are rejected under 35 U.S.C. 102(e) as being anticipated by Brandt et al. (US 6,854,554).

As to claim 1, Brandt et al. discloses in fig. 2, a method for controlling a parameter of at least one signal, including the steps of:

receiving a desired command signal (see signal of joystick 102); from at least one control input;

determining a potential condition for receiving an undesired command signal (see signal of joystick 104) from at least one other control input;

adjusting a parameter of an undesired command signal (see col. 5, lines 52-58) received from the at least one other control input in response to the potential condition, and delivering the desired command signal and the undesired command signal to at least one output (see col. 4,lines 27-38).

As to claim 2, Brandt et al. discloses further, wherein receiving a desired command signal (102) includes the step of receiving a desired command signal from at least one axis of a joystick (because joystick 102 having at least one axis).

As to claim 3, Brandt discloses further, wherein receiving a desired command signal includes the step of receiving a desired command signal from at least one lever (because joystick 104 having at least one level).

As to claim 4, Brandt et al. discloses further, wherein receiving a desired

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command signal (102) includes the step of receiving a desired command signal from an automated program (see col. 4, lines 28-37).

As to claim 8, Brandt et al. discloses in fig. 2, an apparatus for controlling a parameter of at least one signal, comprising;

a plurality of control inputs (102, 104); and a controller for (116):

receiving a first command signal from at least one control input (102);

determining a potential condition for receiving an undesired command (104)
signal from at least one other control input;

receiving a second command signal from the at least one other input, modifying a parameter of the second command signal in response to the potential condition (col.5, lines 52-58), and

delivering the first and second command signals to at least one output (col. 4,lines 27).

As to claim 9, Brandt et al. discloses further, wherein the plurality of control inputs includes a joystick (as discussed above).

As to claim 10, Brandt et al. discloses further, wherein the joystick includes a plurality of axes, each axis providing an associated control input (because the joystick 102, or 104 can rotate with multiple axes).

As to claim 11, Brandt et al. discloses further, wherein the plurality of control inputs includes at least one lever (as discussed above).

As to claim 12, Brandt et al. discloses further, wherein the plurality of control inputs includes at least one automated program for initiating a command signal (see col. 4, lines 28-32).

As to claim 14, Brandt et al. discloses further, wherein the plurality of control inputs includes at least one of a joystick, a lever and an automated program (as discussed above).

As to claim 15, Brandt et al. discloses in fig. 1, further wherein the controller (116) includes an input/output control interface (see left and right joysticks 102, 104, and actuators 114); and at least one of a deadband control function and a gain control function (see col. 6, lines 14-42).

As to claim 17, Brandt et al. discloses further in fig. 2, wherein:

the desired command signal (102) is indicative of an intentional actuation of the at least one control input;

and determining a potential condition for receiving an undesired command signal (104) from at least one other control input includes determining the undesired command signal to be indicative of an inadvertent actuation of the at least one other control input (see col. 4, lines 42-50).

As to claim 18, Brandt et al. discloses further, a method for delivering a command signal comprising:

receiving a first command signal (102) from a first control input; receiving a second command signal (104) from a second control input;

selectively passing the second command signal through a control function to selectively control a parameter of the second command signal as a function of the first command signal;

subsequently removing the control function from the second command signal, and communicating the first and second command signals to at least one output as discussed in claim 8.

### Claim Rejections - 35 USC § 103

- 7. The following-is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Brandt et al. (US 6,854,554) in view of Kim (US 2003/0060906).

Brandt et al. discloses a method for controlling a parameter of at least one signal, including the steps of:

receiving a desired command signal (see signal of joystick 102); from at least one control input;

determining a potential condition for receiving an undesired command signal (see signal of joystick 104) from at least one other control input; and including removing the adjusted from the undesired command (see col. 5, lines 52-58).

Brandt et al. does not express the undesired command signal after an elapsed period of time.

However, Kim discloses the undesired command signal after an elapsed period of time (see 0002).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the undesired command signal after an elapsed period of time as taught by Kim into the system of Brantd et al. because this would provide a slight elapse of time between the operation of the levels, and the elapse in time prevents a smooth and substantially simultaneous operation of the vehicle actuators (see 0002).

### Allowable Subject Matter

9. Claims 5-7, 13 and 19-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

None of the cited art teach that wherein said receiving a desired command signal includes the step of receiving a desired command signal from a proportional output device or wherein said

adjusting a parameter of an undesired command signal includes the step of increasing an amount of deadband of the at least one other control input or adjusting a parameter of an undesired command signal includes the step of adjusting a gain parameter of the at least one other control input as claims 5-7; or wherein the plurality of control inputs includes at least one proportional output device as claim 13; or selectively passing the second command signal through the control function when the second command signal is determined to be an inadvertent signal with respect to the first command signal; and wherein the control function is configured to control a parameter of the second command signal as claims 19-20.

#### Response to Arguments

10. Applicant's arguments filed on 7/12/06 have been fully considered but they are not persuasive.

Applicant states that, "Brandt does not disclose or suggest, inter alia, a method for controlling a parameter of at least one signal including "determining a potential condition for receiving an undesired command signal from at least one other control input" and "adjusting a parameter of an undesired command signal received from at least one other control input in response to the potential condition," as recited in independent claim 1. Brandt discloses setting parameters, including deadband, prior to use; after the parameters are set, they are not subsequently changed. See lines 57 to 59 of column 5 of Brandt. That is, Brandt discloses setting a parameter prior to use, i.e., establishing a constant parameter, and, thus, Brandt does not

disclose adjusting a parameter of an undesired command signal in response to a potential condition for receiving an undesired command signal and therefore cannot anticipate claim 1.

Examiner respectively disagrees because Brandt discloses a potential condition for receiving an undesired command signal (see signal of joystick 104) from at least one other control input. Brandt also discloses adjusting a parameter of an undesired command signal received from the at least one other control input in response to the potential condition, because Brandt discloses a plurality of settable parameter (adjusting a parameter) by adjusting the high or low speed fashion (see col. 5, lines 52-67).

#### Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number is (571) 272-7698. The examiner can normally be reached on MON-FRI, FROM 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on (571) 272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kimnhung Nguyen September 27, 2006

> RICHARD HJERPE SUPERVISORY PATENT EXAMINER TECHNO: OCCUPENTED 2800